

551289

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 October 2004 (14.10.2004)

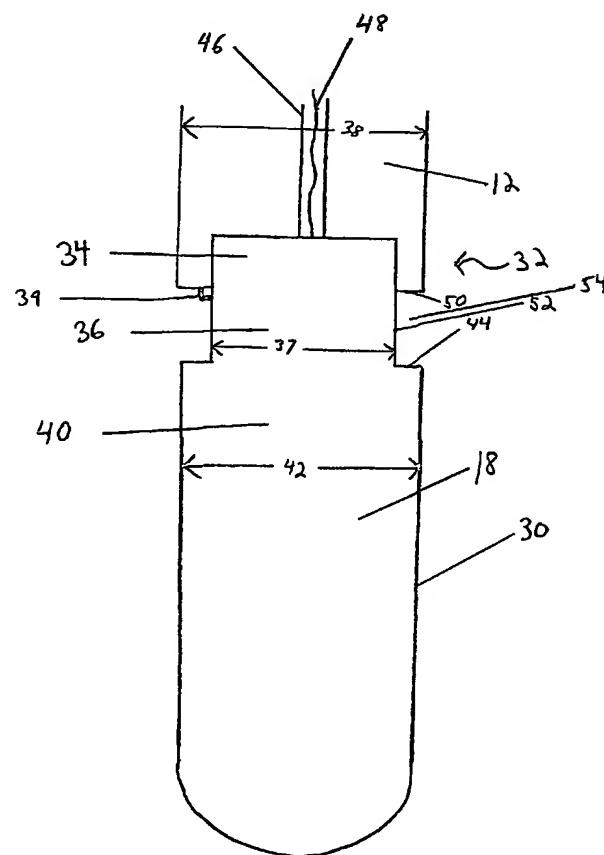
PCT

(10) International Publication Number
WO 2004/086992 A1

- | | | | |
|---|----------------------------|---|--|
| (51) International Patent Classification ⁷ : | A61B 18/14 | (72) Inventor; and | |
| (21) International Application Number: | PCT/US2004/009610 | (75) Inventor/Applicant (for US only): STEVENS-WRIGHT, Debbie [US/US]; 175 Candlestick Road, North Andover, MA 01845 (US). | |
| (22) International Filing Date: | 29 March 2004 (29.03.2004) | (74) Agent: MORRIS, James, H.; Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210 (US). | |
| (25) Filing Language: | English | (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW. | |
| (26) Publication Language: | English | (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, | |
| (30) Priority Data: | | | |
| 60/458,489 | 28 March 2003 (28.03.2003) | US | |
| 60/458,490 | 28 March 2003 (28.03.2003) | US | |
| 60/458,491 | 28 March 2003 (28.03.2003) | US | |
| 60/458,643 | 28 March 2003 (28.03.2003) | US | |
| 60/458,856 | 28 March 2003 (28.03.2003) | US | |
- (71) Applicant (for all designated States except US): C.R. BARD, INC. [US/US]; 730 Central Avenue, Murray Hill, NJ 07974 (US).

[Continued on next page]

(54) Title: JUNCTION OF CATHETER TIP AND ELECTRODE



(57) Abstract: Junctions of ablation electrodes and catheters are disclosed. Electrophysiology catheter systems include a recessed region such as a channel at a junction of an electrode and a catheter shaft. The channel can help to reduce electrode hotspots, energy density and/or blood coagulation at the junction. The channel may be incorporated in a distal tip electrode or a ring electrode.

WO 2004/086992 A1